



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Oil Trust Fund

Sample Collection Date(s)-- 07/01/10

Contact----- Rich Mayer (6PD-F)

Report Date-----07/07/10

Project #----- 10REG190

Work Order(s)-----1007005

Analyses included in this report:

LC DOSS

Report Narrative

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief



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Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund

Project Number: 10REG190

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



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ANALYTICAL REPORT FOR SAMPLES

| Station ID | Laboratory ID | Sample Type | Date Collected | Date Received |
|-----------------------|---------------|-------------|----------------|----------------|
| T005-1333-100701-SW-1 | 1007005-01 | Liquid | 7/1/10 8:40 | 07/02/10 10:20 |



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DOSS by LC/MS/MS

Lab ID: 1007005-01

Station ID: T005-1333-100701-SW-1

Batch: B0G0202

Date Collected: 07/01/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared | Analyzed |
|-----------------------|----------------|-----------------------|-----------|---------------------|----------|----------|
| <i>Surr: DOSS-D34</i> | 300 | | 97.2 | 70-130 | 07/02/10 | 07/02/10 |

Targets

| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared | Analyzed |
|---|----------------|-----------------------|--------------------|----------|----------|----------|
| Diocetyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/02/10 | 07/02/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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DOSS by LC/MS/MS - Quality Control

Batch: B0G0202

Sample Type: Liquid

Blank (B0G0202-BLK1)

Prepared: 7/2/2010 Analyzed: 7/2/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC Limits |
|-----------------------|----------------|----------------------|----------------|----------------|
| <i>Surr: DOSS-D34</i> | 323 | | 370 | 87.3 70-130 |

Blank (B0G0202-BLK1)

Prepared: 7/2/2010 Analyzed: 7/2/2010

Targets

| ANALYTE | Result µg/l | Analyte Reporting Qualifiers Limit |
|-------------------------------------|----------------|---------------------------------------|
| Diethyl sulfosuccinate, sodium salt | U | 20.0 |

LCS (B0G0202-BS1)

Prepared: 7/2/2010 Analyzed: 7/2/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC Limits |
|-----------------------|----------------|----------------------|----------------|----------------|
| <i>Surr: DOSS-D34</i> | 358 | | 370 | 96.8 70-130 |

LCS (B0G0202-BS1)

Prepared: 7/2/2010 Analyzed: 7/2/2010

Targets

| ANALYTE | Result µg/l | Analyte Reporting Qualifiers Limit | Spike Level | %REC Limits |
|-------------------------------------|----------------|---------------------------------------|----------------|----------------|
| Diethyl sulfosuccinate, sodium salt | 109 | 20.0 | 100 | 109 50-150 |



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DOSS by LC/MS/MS - Quality Control

Batch: B0G0202

Sample Type: Liquid

Matrix Spike (B0G0202-MS1)

Source: 1007005-01

Prepared: 7/2/2010 Analyzed: 7/2/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC Limits |
|-----------------------|----------------|----------------------|----------------|----------------|
| <i>Surr: DOSS-D34</i> | 283 | | 322 | 88.1 70-130 |

Matrix Spike (B0G0202-MS1)

Source: 1007005-01

Prepared: 7/2/2010 Analyzed: 7/2/2010

Targets

| ANALYTE | Result µg/l | Analyte Qualifiers | Reporting Limit | Spike Level | Source Result | %REC Limits |
|--------------------------------------|----------------|-----------------------|--------------------|----------------|------------------|----------------|
| Diocetyl sulfosuccinate, sodium salt | 93.4 | | 20.0 | 87.0 | U 107 | 50-150 |



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CHAIN OF CUSTODY RECORD

R05_DeepWater_Chalmette
Contact Name: Christy Warren
Contact Phone: 281-983-2137

No: T0033-100402-20100701-001

Airbill No
Lab: U.S. EPA Region 6 Laboratory
Lab Phone: 281-983-2137

| Lab # | Sample # | Analyses | Matrix | Collection Method | Collected | Sample Time | Numb Cont | Container | Preservative |
|-------|-----------------------|----------|---------------|-------------------|-----------|-------------|-----------|-----------|--------------|
| | T005-1333-100701-SW-1 | DOSS | Surface Water | Grab | 7/1/2010 | 08:40 | 2 | 40 ml VOA | 4 C |

Special Instructions:

EPA

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY

| Items/Reason | Relinquished by | Date | Received by | Date | Time |
|-----------------------|-----------------|--------|-------------|------|------|
| Boys C-67/110 Average | Boys C-67/110 | 7/1/10 | 16:45 | | |
| Boys C-67/110 | Boys C-67/110 | 7/1/10 | 22:45 | | |
| Boys C-67/110 | Boys C-67/110 | 7/1/10 | 4:50 | | |
| Boys C-67/110 | Boys C-67/110 | 7/1/10 | 10:01 | | |

| Relinquished By | Date | Received by | Date | Time |
|-----------------|--------|---------------|--------|-------|
| MOH-A | 7-2-10 | Isabel Harris | 7/2/10 | 10:20 |

Sample Temp: 1°C



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Notes and Definitions

| | |
|------|--|
| A | This sample was extracted at a single acid pH. |
| HTS | Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values. |
| AES | Atomic Emission Spectrometer |
| CVAA | Cold Vapor Atomic Absorption |
| ECD | Electron Capture Detector |
| GC | Gas Chromatograph |
| GFAA | Graphite Furnace Atomic Absorption |
| ICP | Inductively Coupled Plasma |
| MS | Mass Spectrometer |
| NA | Not Applicable |
| NPD | Nitrogen Phosphorous Detector |
| NR | Not Reported |
| TCLP | Toxicity Characteristic Leaching Procedure |
| U | Undetected |
| # | Out of QC limits |

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.